To The Board of Studies, S.D.Mahila Mahavidyalya, Narwana.

Sub: Approval for "Basic Components of Physics" Certificate course ..

Respected Madam,

We want to start a certified offline course "Basic Components of Physics"(30 Hours) in our campus. A Certificate is an education goal for many students who want to improve their visibility among aggressive job applications. Certificates may help to provide students with increased skills and experience. Syllabus of "Basic Components of Physics" is attached with this application. Please kindly approve this certified course. We shall be thankful to you for this.

Enclosed: Syllabus of the Certificate Course.

Officiating Principal S.D. Mahila Mahavidyalya NARWANA

Yours Faithfully

Ms.Nish

Asstt. Prof. of Physics

Skill oriented course

Syllabus

Topic = Basic component of Physics

1. Introduction

1.1 Basic Components

- Transistor
- Diode
- Resistor
- LED
- Potentiometer
- Relay
- Capacitor
- Inductor.
- PCB
- Bread board
- 2. Use of Multimeter

3. How to make an electric extension board

- 4. How to repair water pump in an electric cooler.
- 5. How to use soldering iron
- 6. How to make COB LED (Chip ON Board)
- 7. Uses and applications of Basic components.

Theory

Time - 1:00 hour

Note:- Paper Setter will set 5 question in all. Question No. 1 Comprising of 4 short types Questions carrying 1 Marks each is compulsory. It Covers the entire syllabus. Candidate is required to attempt all questions carrying 4 marks each.

"Practicals"

MM-20

Time- 1:00 hour

Note-Do any one experiment (Program) from the five (Program)

* The Practical examination will be held in a Single Session of 1 hour.

Distribution of Marks:

Experiments- 15 marks

Viva Voice- 05 marks

Total- 20 marks

M.M-20

Ms. Nisha Asst. Prof. of Physics

Ms. Mahak Asst. Prof. of Physics

Subject: Approval for "Basic Components of Physics" by the Board of Studies

Dear Ms. Nisha & Mahak,

I am pleased to inform you that after careful consideration and review by the Board of Studies, has approved "Basic Components of Physics" which spans over 30+ hours of instruction.

This course has been evaluated thoroughly to ensure its alignment with our institution's academic standards and objectives. We believe that it will significantly contribute to the academic enrichment of our students and align with our commitment to providing high-quality education.

Thank you for your interest and support in our academic endeavors.

Yours sincerely.

Andeep Dr. Na Assoc Prof. in Eco. Convener

Dr. Anita Chabra Asst. Prof. in Hindi

Member

Dr. Shallu Sachdeva Suman Garg Asst. Prof. in Hist.

Member

Member

Nisha

Asst. Prof. in Eng. Asst. Prof. in Physics Member

Officiating crincipa

S.D. Marin Mahavid yalyo NARWANA

Ph. No. 01684-240161



S D MAHILA MAHAVIDYALYA NARWANA-126116 (JIND) HARYANA

Dated:-...28/09/2022

Notice

बी एस सी द्वितीय वर्ष की सभी छात्राओं को सूचित किया जाता है कि 01 ऑक्टूबर 2022 से महाविद्यालय में Basic Component of physics पर 30 घंटे का सर्टिफिकेट कोर्स करवाया जाएगा और कोर्स के अंत में परीक्षा ली जाएगी और छात्राओं को प्रमाण पत्र दिए जाएंगे।

Officiating Principal S.D. Mahila Mahavidyalyo NARWANA



DEPARTMENT OF SCIENCE PROUDLY OFFERS ADD ON CERTIFICATE COURSE IN BASIC COMPONENTS OF PHYSICS

STARTING FROM 1 OCTOBER 2022

DURATION - 30 HOURS

MODE- OFFLINE

The primary objective of the "Fundamentals of Physics: Exploring Basic Components" certificate course is to provide BSc students with a comprehensive understanding of essential concepts in physics and their applications. By the end of the course, students should be able to: Understand Fundamental Principles Apply Physical Laws Analyze Systems Perform Laboratory Experiments Demonstrate Problem-Solving Skills

MS. NISHA

MS. MAHAK

DR. ANJANA LOHAN PRINCIPAL

	and the second second		ile mean	walker - S		- ACTE				39 C									Kongola Marine In	1 1	21	0				100
		S	kill	ori	ent	ed	<u>(</u> 0	WH.	se	0	n	_ t	03	¢	Cor	nþe	m	nt	01	5 t	ny	BIC	8			
				_	S.D.	ivia	niia	IVIa	ina	l o	C	a, r	- no	yan		2)					\sim					
		Partio	cipar	nt At	tend	anc	e Sł	neet	: :	():	×	l	h		fra	·	• • • • •	•••••								
				fro	ns	1.1.1	0.2	020	2	+0		19	<i>.</i>	.a	.ad	×										
	Participant Attendance Sheet :																									
Sr.No.	Name	Roll No.	01 03	1 1		0	11 (2/14	15	17 18	19	20:	21 27	28	29 3	04	071	110	2 14	1511	010	P	P	26 1	menna	
31.140.	Menka	1211913015001	PP			PP	P	PP	P		P		PP	P	PP		P	P	PO	14	PF	P		25	Ami	a
2	Amu	02	PP	PP		>P		P	P	PP		P	PP		PP	-	P		PP	P	P	P		20	pinape	(
3	Kisanbal	03	P	PP	++++		P	ρ		PP	1	P	P	P	PP	0	-+		PP	P	P		P	and the second	Sejal	
4	Soial	04	PP	1	Pf	_		P	P	P		P	P	P	P		P	PF	P	P	PF	P	P	28	Abju	
5	Aniu	06	PP	PP	PI	2 P		PP	P	PP	P	F I	1	P	PP	P	P	PI	PP	P	F	P	P	25	Pabja Kajal	
6	Poola	07	PP	PF	×	P		PP	P	PP	P	0	PP	1	PP	PR	P		PF	P	P	PF	P	26	Namey 1	Rahi
T	Kainel	08	PP				r	PP	0	P	P	P	PP	\downarrow	P	P	P	PF	2	P	PI	PP	'L	25	Namer	and the
8	Nancy Rane	09	p P		P	p	P		0	PP			OP	P	PI	PP	P	1 1	PP	P	P	PP	P	95	NULUM	1
9	Nisher	10	P	P P	p	PD	P	P	r	PP	1	P	PP	P	P	P	P		P = P		P	PP	P	23	manit	de la
10	Kusum	11			p	PO	P	P	A	PP	P	P	PP	P	Pŧ	P P	P	v /	PP	+ + +	y 1	17		25	Komal	7
1	Nanitu	12	10	PP	P	P	P	P	P	PP			PP	P	PP	P	P	P 6	-	P	1 1	P P P P		25	Shalu	Devi
12	Komal Shalu Devi	10	PP	PF	P	PP	P	P	P	P	P	P	PP	P	PI	P	P	P	P	P		PP		27	Priyan	Aa
13		15	PP	PP	PI	P	P	PP	P	PP	P	P	PP	P	PP	1	P	P	PP	P	r p	PP	P	37	Anni	1
15	Ageti	16	P	PP	P	PP		PP	P	PP	P	P	PP	P	P	P	P	P	2 6	20	P		P	25	Romm	dai
16	Raman Desli	18	PP	PP		PP	P	PP		PP	P	P	P			PP	P	PO			P	PF	o a	29	koma	2
17	Komal	19	PP	P	P	PP	P	PP	P	PP	<u>P</u>	P	PF	P			p	0	D I		PI	5 P	P	27	Nimm	2/
18	Nimmy	20	PP	PP	Pf		P	P P	P	P P	$\frac{P}{p}$	P	PP	P	IF	PP	F	1	PF	P	P	PF	P	27	Anthal 1	1
19	Anchal	21	PP	PE		P	PI	PP	r	P		P	PP	P	101	DP	+	P	PF	P	P	PF	P	25	Prina	
20	Priya	23	6 6	N 1		PPP	P	PP	P	PE		P	PP	P	P	PP	P	P	P	P	-	P 1	P	25	famar	ma
21	Tamanna	24	PP	P		P		Pr	P	PP	20	P	, i	>			P	P	,)	Q	P	6	P	21	Prina	INI
22	Priti Devi	28	PP	'	, r-	18		D	ρ	PP	P	P		p 1	PP	P	6		P	P		P	P	21	Panal	
23	Payal Sakahi	29	60	PO	P	P	p	P	P	PY	P	P	PA	2 ¥	O P	PF	P		PI	PP		P	P	25	Sprst	25
24	Sarshi	30	p p	DE		0	P	P			o p	1	PI	PP		PP	P	P	PA	P		PI	P	22	Priva	_
25	Anju	31	P	pp		PP	P	PP		PF	P	P	P	F	> P	PF	PP	P	PH	PP	P	P	P	27	Angut	
27	Aniale	32	p .r	PP		> p	P	PP	P	PP	>	P	PF	P	P	PP	P		PI	PP	P	P	P	26	Aniall	2
28	Aniali	33	P	PP	P	PP	P	PF	P	PP	P	p	1	D F	p	PP	P	P	P	P			pp	27	Anjali	1
29	Sucati	35	PP	P	P	PP	R	PP	P	PP	P	'p	P	P	P	PP	P	P	P	P	P		PP	26	Swah	
	Anialisharma	36	P	P	P	PP		P	P	PG	P P		PI	D F	PP	PF	P	P	P	PP		1 1	PP	25	Anjalia	Harma
31	Sakshi	38	P	V V.	P	PP	P	P		P	p		P	81	P	P	P	P	P	P	P		PP	25	SARAS,	n
	Manju Devi	39	PP	PP	P	P	P	PP	× ×	PI	- ×	-		PI	PP	PI	P	P	ρ	P	P	P	PP	28	Mariu	-
33	Nella	40	P	PO	P	PP	P	P	P	PI	P	P	P	2 F	2	P	PP	P	P	PP	P		P	25	Neha	
34	Minakshi	41	PP	PF	1	PP	P	PP	P	1	° ľ	P P	P	PI	PP	P	P	PP	° r	P	F	0	Pt	28	Minak	shi_

🧕 GPS Map Camera



Narwana, Haryana, India H4V5+JG7, Bir Bal Nagar, Narwana, Narwana Rural, Haryana 126116, India Lat 29.59414° Long 76.109174° 07/10/22 12:12 PM GMT +05:30

(62

NO EN

🧕 GPS Map Camera

E MO ENT



Narwana, Haryana, India H4V5+JG7, Bir Bal Nagar, Narwana, Narwana Rural, Haryana 126116, India Lat 29.59414° Long 76.109174° 07/10/22 12:12 PM GMT +05:30

Narwana, Haryana, India H4V5+JG7, Bir Bal Nagar, Narwana, Narwana Rural, Haryana 126116, India Lat 29.59414° Long 76.109174° 07/10/22 12:12 PM GMT +05:30

5000

GPS Map Camera

.

Skill oriented certificate course

Topic - Basic components of physics

Session - 2022-2023.

M.M= 20.

Time = 1hour

All candidates are required to attempt any four questions from Question 2 to Question 6. Question 1 is compulsory.

Ques 1. (a) What is resistor?

(b) Why we use soldering iron machine?

.

(c) What is diode?

(d) What is transistor? 4×1=4

Ques 2. What is breast board? How many parts are there in bread board?

Ques 3. What is PCB? What are three types of circuit board?

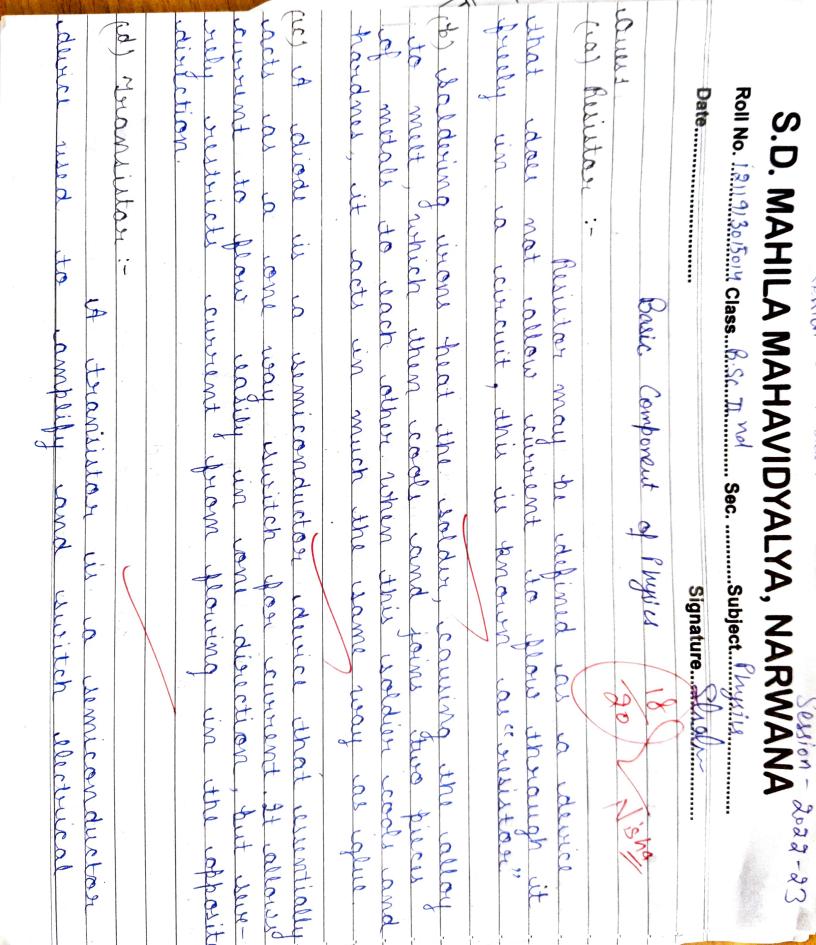
Ques 4. Write the name of 8 basic electronic components with symbol?

Ques 5. Explain the uses of basic electronic components.

Ques 6. (a) Define the LED witbits full form

(b) Explain inductor and capacitor with its symbols. 4×4= 16

(d) Ans: - Telansister > A + telansister is a type of semiconductor device that can be used to conduct and insulate Que Tr. (b) Ans: This is a process where solder a fusible metal alloy typically a wire is heated to a high temper-ature with the tip of the soldering irron. when this soldier cools and handens, it acts in much the same Ans: - Resistant & Resistant is defined as the device that C) Ans: Diode > Diodes are made from a semiconductory current to their easily is one dispection, but severily uses toricts current from flowing in the opposite dispection most often silicon but sometimes germanium. It allows S electoric Date..... way as S.D. MAHILA MAHAVIDYALYA, NARWANA it. Loicely in a does switch and an amplifican not allow electric current to the through cusulent ou voltage. A transistant basically act glue 30 いらいで News Signature......



Result of Certificate Course Class- B.S.C. II not year Sension- 2022-2023 Topic- Basic Components of Physics

		Sension- d	sic Compo	rents of Phys	ius	10)
S.NO.	Roll No.	Name	Theary (20)	Ponactical (20)	Total (40,)
			15	15	30	
1.	1211913015001	Menka	10	19	26	
2.	121191301500	Anu	14	12	25	
3.	1211913015003	Kiranpal	H	14		
Ч.	1211913015004.	Sejal	10	15	25	
5.	1211913015006	Anju	17	3	30	
6.	1211913015007	Poaja	18	16	34	
7.	1211913015008	Kajal	16	17	33	Ŕ
8	1211913015009	Nancy	19	16	35	,C
9	1211913015010	Nishu	16	18	34	
10	1211913015011	Kusum	15	17	32	
11	1211913015012	Manitu	15	15	30	
12.	1211913015013	Komal	14	13	27	
13	1211913015014	Shalu Devi	8	18	36	ł
14.	211913015015	Priyanka	16	14	30	
15.	1211913015016	Aarti	13	16	ঽঀ	
16	1211913015018	Raman Devi	15	14	ર્ચવ	
17.	1211913015019	Komal	8	18	36	
18.	1211913015020	Nimmy	16	16	32.	
19 .	1211913015021	Anchal	14	16	30	
20,	1211913015023	Priya	18	18	36	
21,	1211913015024	Tamanna	17	17	34	
22.	1211913015025	Priti Devi	1)	17	30	
83	1211913015028	Payal	12	16	31	
24.	1211913015029	Sahshi	17	15	31	
25.	1211913015030	Priya	18	19	36	
		Ť		-	- 0	

S. No.	Roll No.	Name	Theory (20)	Practical (20)	Total (40)
26. 1	211913015031	Anju	18	17	35
27.12	11913015032	Anjali	17	17	34
28, 1211	913015033	Anjali	14	15	29
		Swati	15	15	30
	913015036 A		16	14	30
31, 1211		Sakshi	14	14	28
			15	14	29
	913015039 Ma		17	18	35
33, 12119		velia		17	36 6
34,12119	13015041 M	linahshi	19		

.

Overview

Skill Oriented Course on Basic component of Physics Session:- 2022-23

The Certificate Course on Basic Component of physics Offered by the Department of Physics, Mrs. Nisha S.D.MM.V Narwana has conducted from 01 October,2022 to 19 November, 2022 with a batch of 34 students and 34 Students successfully completed the course. The students gain knowledge for transistor, LED; Breadboard, Multimeter, Capcitor etc. During this certificate Course Mrs Nisha and Mahima gave the mechanical skill like, How to make an electric extension board, Repairing af Water pump in an electric cooler, soldering iron, How to make COB LED.

Principal Dr Anjana Lohan, Dr Nayandeep, Dr Shalu Sachdeva,Poonam, Seema, Mahima were present at this event.

Learning outcomes

- *. Gain knowledge of Basic Component of Physics.
- *. Operate soldering iron, Multimeter
- *. Develop mechanical skill.
- *. How to make an extension board.
- *. Knowledge to repair water pump in an electric cooler.
- *. How to make COB LED
- *. Learning how to repair Physics practical apparatus.

All students successfully completed this Course. By gaining knowledge of this course, me they become self independent and will start their own Start up in future to make earning.

S D Mahila Mahavidyalya, Narwana Student Feedback Performa

Student Feedback Fen	Unna		2	
Name	SI	10lu X	PVI	
Class	Bis	SCI	guar	
Roll Number	1211	913015	019	
Email Address		0 9	92	
Session	20	22-21	DA J	
Phone No.		Very	Good	Average
	Excelle	Good		
	nt	0000		
The content was easy to understand.	V			
It was well organised.		V.		
It engaged the participants in learning.	V			
The Teacher was able to explain the activity.				
The level of communication of teacher with				
students				
students The event made progress in accomplishing its		\checkmark		
goal.				
goal. I found this event experience to be worthwhile.				
		0		
Suggesion अहाविद्यालय में शुरू किया जया भ्रेरलादायक भा। इससे हमें आत्यंत चींने	atte	भ सा को को	1 Armal	[4] 5]
मरतादायक भा इसस का जास जगातार क	John "	ancala	Shalu	,
			Signature	

Date

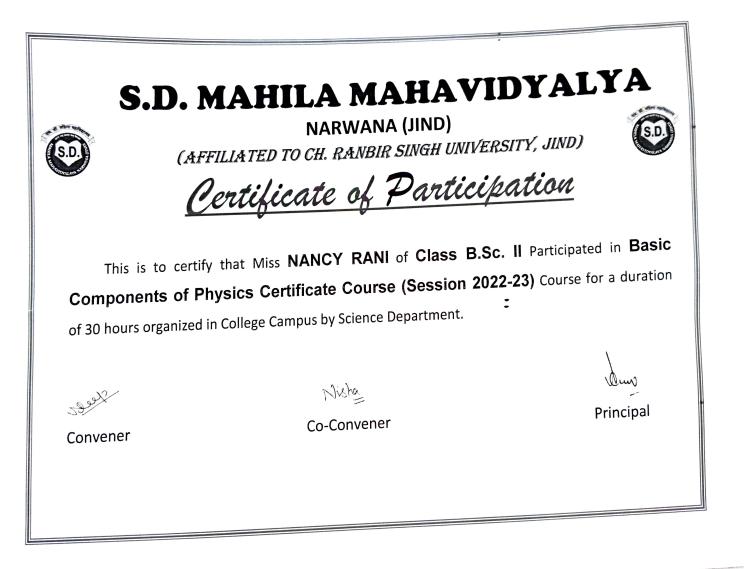
S D Mahila Mahavidyalya, Narwana Student Feedback Performa

	011110	-		ومراجعتها والمتحريبة المحترين المحترين
Name	N	elia		
Class	B.S	CIIN	d year	
Roll Number	1211	91.301	5840	
Email Address	1.011			
Session	20	22-20	023	
Phone No.				A. 107270
	Excelle nt	Very Good	Good	Average
The content was easy to understand.	V			
It was well organised.	\checkmark			•
It engaged the participants in learning.				
The Teacher was able to explain the activity.			2	
The level of communication of teacher with				
students The event made progress in accomplishing its				
goal. I found this event experience to be worthwhile.				1
uggesion महाविद्यालय में आयोजित किया रिलावायक आ । इससे हमें अन्यंत नीनें आविष्य में इस रुकार के कोर्स लगातार	Alter	7 chi	1910	4/ 1
אועריך ה פני מיזוג עו אוויוי			Nella	

.

S D Mahila Mahavidyalya, Student Feedback Per	forma			
	Λ	1 mm		
Name Class	> 121	19138	5020	
Roll Number	b B	SCI	ria	
Email Address		0 9	22	
Session	200	22-20		
Phone No.	Excelle	Very	Good	Average
	nt	Good		
The content was easy to understand.	V			
It was well organised.				
It engaged the participants in learning.	1			
The Teacher was able to explain the activity.			~	
The level of communication of teacher with		\checkmark		
students				
The event made progress in accomplishing its				
goal.				
I found this event experience to be worthwhile.				
Suggesion सहाविद्यालय में आखोजित किया व		210	nthat!	4
महाविद्यालय में अत्याजत विया व प्रेरणादायक शा । उससे हमें अत्यंत चीजें	ettea.	कास ने को	भाभ जादी न	1 1
अविषय में इस प्रकार के करिस लगातार			+ -	A.

Signature ,





S.D. MAHILA MAHAVIDYALYA



NARWANA (JIND) (AFFILIATED TO CH. RANBIR SINGH UNIVERSITY, JIND)

Certificate of Participation

This is to certify that Miss **NIMMY** of **Class B.Sc. II** Participated in **Basic Components** of **Physics Certificate Course (Session 2022-23)** Course for a duration of 30 hours organized in College Campus by Science Department.

Nisha

Convener

Co-Convener

Principal

